

Claims

1. System (1) for updating items of information displayed on at least one client (9), which has

- 5 - a server (3) to provide the items of information,
- at least one information unit (4_i) for displaying the items of information on a client (9),
- a data transmission device (11) for transmitting new items of information on the server (3) and/or for transmitting items of information between the server (3) and at least one client (9),
- first facilities (5) for the management of identifiers ($8_{1..n}$) used to identify information units ($4_{1..m}$) and for assigning an update stamp (t), in each case to an identifier (8_i),
- 15 - second facilities (6) for assigning newly-received items of information to the identifiers ($8_{1..n}$) and for the purpose of updating the update stamp (t), and
- third facilities (7) for comparing the update stamp (t), assigned to the information unit concerned (4_i), with the
- 20 current update stamp ($t+1$).

2. System in accordance with Claim 1,

characterized in that

provision is made for the updating of the items of information

- 25 displayed in an information unit (4_i) when the update stamps differ.

3. System in accordance with one of the preceding claims

characterized in that

- 30 the system (1) is provided for the updating of items of information relating to an industrial production process.

4. System in accordance with one of the preceding claims characterized in that the client (9) takes the form of a device for operating and monitoring the production process.

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5. System in accordance with one of the preceding claims characterized in that the server (3) is provided for the purpose of making available items of information received from programmable controllers or systems, as applicable, and/or diagnostic devices or systems, as applicable, (10).

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6. System in accordance with one of the preceding claims characterized in that

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the server (3) takes the form of a Web server.

7. System in accordance with one of the preceding claims characterized in that

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the first facilities (5) and/or the second facilities (6) and/or the third facilities (7) are provided for the purpose of installation on the server.

8. System in accordance with one of the preceding claims characterized in that

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the identifiers $8_{1..n}$ provided are special Uniform Resource Identifiers (URIs) as used in the Web environment.

9. System in accordance with one of the preceding claims characterized in that

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the device (11) for the transmission of data takes the form of an Intranet and/or the Internet (12).

10. Method for updating the items of information displayed on at least one client (9), whereby

- the items of information are provided on a server (3),
- the items of information are displayed on a client (9) in at
5 least one information unit (4_i),
- new items of information on the server (3) and/or items of information are transmitted between the server (3) and at least one client (9) by a data transmission device (11),
- identifiers ($8_{1..n}$) used to identify information units ($4_{1..m}$)
10 are managed by first facilities (5), and an update stamp (t) is assigned in each case to one identifier (8_i) by the first facilities (5),
- newly-received items of information are assigned to the identifiers ($8_{1..n}$) by second facilities (6), and the update
15 stamp (t) is updated by the second facilities (6), and
- the third facilities (7) effect a comparison of the update stamp (t), assigned to the information unit concerned (4_i), with the current update stamp ($t+1$).

20 11. Method in accordance with Claim 10, characterized in that the items of information displayed in an information unit (4_i) are updated when the update stamps differ.

25 12. Method in accordance with Claim 10 or 11, characterized in that the items of information relating to an industrial production process are updated.

30 13. Method in accordance with one of the Claims 10 to 12, characterized in that a device for operating and monitoring the production process is

used as the client (9).

14. Method in accordance with one of the Claims 10 to 13,
characterized in that

5 the items of information received from programmable controllers
or systems, as applicable, and/or diagnostic devices or systems,
as applicable, (10) are made available by the server (3).

15. Method in accordance with one of the Claims 10 to 14,
10 characterized in that

a Web server is used as the server (3).

16. Method in accordance with one of the Claims 10 to 15,
characterized in that

15 the first facilities (5) and/or the second facilities (6) and/or
the third facilities (7) are installed on the server (3).

17. Method in accordance with one of the Claims 10 to 16,
characterized in that

20 the identifiers $8_{1..n}$ used are special Uniform Resource
Identifiers (URIs) as used in the Web environment.

18. Method in accordance with one of the Claims 10 to 17,
characterized in that

25 the device (11) used for the transmission of data is an Intranet
and/or the Internet (12).